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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
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January 12, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Jess Kelley, Reclamation Engineer JK

RE: Approval of New Bathhouse and Parking Lot Amendment, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-92H, Folder #2, Emery County, Utah

## SYNOPSIS

On July 27, 1992, the Division received from Co-Op Mining Company Amendment 92H, which purposes to amend the existing Mine Plan to include a new bathhouse and parking lot. The area to be added to the permit area is approximately 1.84 acres. Runoff from the added area is to be treated by a new sediment pond, designated 'Pond C.'

The July 27, 1992 submittal contained several deficiencies, which this writer outlined in a September 10, 1992 memorandum. The Division sent a copy of the memorandum to the permittee in September of 1992. The permittee responded to these deficiencies in a submittal which the Division received on January 4, 1993.

This memorandum constitutes the writer's review and approval of Amendment 92H.

## ANALYSIS

The original amendment contained seven deficiencies. The permittee corrected all of these deficiencies in the January 4, 1993 submittal. Each deficiency is listed below, as it appeared in the September 10, 1992 memorandum. Following each deficiency is a brief description of the measures taken by the permittee to correct it and their location in the revised mine plan.

1. The plan for Sediment Pond 'C', Plate 7-6, must be certified by a qualified, registered, professional engineer (see R645-301-512.240).

Plate 7-6 has been certified by a qualified, registered, professional engineer.

2. Since the permit area (as opposed to the disturbed area) is to be increased, it would be helpful for the operator to include a brief discussion of land ownership and right of entry to demonstrate that he does indeed have the right to conduct coal mining and reclamation operations on the added land.

On page 2-5 of the revised Mine Plan, the permittee demonstrates that he does indeed have the right to conduct coal mining and reclamation operations on the added land, since that land is contained in the lease agreement between C.O.P. and Co-Op Mining Company.

3. The short road that will go from the main haul road to the parking lot must be designated a 'primary road' (see R645-301-527.122).

The permittee has revised several pages of the Mine Plan to show that the bathhouse road is a primary road. On page 3D-6 of Appendix 3D, the design parameters of the road are set forth.

4. Since the road to the parking lot will be of embankment construction, the operator must demonstrate that the road embankment has a static stability safety factor of at least 1.3 (see R645-301-534.130).

On page 3D-6 of Appendix 3D, the permittee demonstrates that the bathhouse road has a static stability safety factor of at least 1.68, which is greater than the required value of 1.3.

5. The operator must demonstrate that the sediment pond embankment has a static stability safety factor of at least 1.3 (see R645-301-533.100).

On page 3-5 of the revised Mine Plan, the permittee demonstrates that the bathhouse road has a static stability safety factor of at least 2.8, which is greater than the required value of 1.3.

6. The location of the septic tank for the shower house must be shown on Plates 2-4B and 7-1B (see R645-301-521.161).

The location of the septic tank is now shown on Plates 2-4B and 7-1B.

7. Some discussion of the septic system--its capacity, construction, functioning and location--is needed. For example, the middle of the parking lot does not appear to be the best place for location of the leach field. The operator must explain this.

The permittee has included Appendix 3J in the Mine Plan. Appendix 3J contains all design and function details of the septic system.

The permittee has responded adequately and completely to all deficiencies listed in the September 10, 1992 deficiency memorandum. The plans for the new bathhouse and its attendant facilities and structures are technically complete and in accordance with the R645 rules.

### RECOMMENDATIONS

It is recommended that Amendment 92H be approved by the Division and that construction of the new bathhouse facility be allowed to begin.

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